



RECALL ACTION

Recall Action
Number: P008

High Pressure Fuel Pump – Front Bearing Failure	Publication No.:	P008v3
	Model Year:	2007 and 2008
	Model:	Discovery 3 TDV6 EU4 Vehicles
	VIN Range:	LA412125 – LA487033
	Model Year:	2007 and 2008
	Model:	Range Rover Sport TDV6 EU4 Vehicles
	VIN Range:	LS100008 – LS181999 LS980310 - LS999998
	Date of Issue:	30 July 2009

To:	The National Sales Companies and Importers in the following countries only: Australia, Bulgaria, Canary Islands, Costa Rica, Croatia, Cyprus, Czech Republic, Finland, Gibraltar, Hungary, Israel, Italy, Macedonia, Moldova, Poland, Romania, Slovakia, Slovenia, South Korea, Spain, Turkey and the Ukraine
For the Attention of:	The Managing Director
Copies To:	The Service/Aftersales Director/Manager The Parts Director/Manager

Related Information:	Version 3* of this recall is being issued to advise markets that the VIN range has been extended and a new level of fuel pump is now available. Markets must commence customer mailing following their normal procedures. This recall must be undertaken in conjunction with recall P017. This affects specific vehicles only. *This is version 1 for Australia.
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RE: High Pressure Fuel Pump – Front Bearing Failure

Dear Colleagues

Land Rover has identified a concern with the high pressure fuel pump fitted to a specific number of 2007MY and 2008MY Discovery 3 and 2007MY Range Rover Sport vehicles with the EU4 TDV6 engine.

The high pressure fuel pump may fail due to poor fuel lubrication flow through the fuel pump front bearing that supports the main shaft, resulting in excessive wear.

Initially the driver may experience an unusual engine noise from the engine compartment. On dealer inspection it is possible that there will be signs of fuel leakage. Fuel may leak via the fuel pump front seal onto the rear of the engine or onto the ground under the vehicle. Fuel leakage may also manifest itself in terms of vehicle performance as reduced engine power and other low fuel pressure related drivability concerns; this will normally be accompanied by a Malfunction Indicator Lamp (MIL) being displayed. The driver may also experience a diesel fuel odor. In extreme cases, it is possible that the vehicle may catch fire.

Action to be taken

Land Rover has taken the decision to recall affected vehicles to replace the high pressure fuel pump with one of a new design that addresses the lack of fuel lubrication flow to the front bearing. The workshop procedure is attached as Appendix 1.

You are requested to contact owners of affected vehicles, following procedures that are appropriate to your market and as required by local legislation; requesting that the owner contact their nearest dealer, as soon as possible, to arrange for the high pressure fuel pump to be renewed. A sample customer letter is attached as Appendix 2; please note this letter also refers to recall P008 and it should be adapted to the requirements of your market.

Please ensure that you check DDW to ensure that the vehicle is affected by this Recall Action prior to undertaking any rework action. DDW will be updated to reflect only those vehicles affected. Should you need a listing of the affected vehicles please contact the Land Rover Field Actions team at jlrcamp@landrover.com. Requests should be made through the National Sales Company or Importer only.

At the time of confirming a booking for vehicle repair, please ensure that all outstanding Field Service Actions are identified to ensure the correct parts are available and adequate workshop time is allocated for repairs to be completed at one visit.

For information purposes, a Technical Question and Answer document is attached as Appendix 3.

Parts Information

The parts listed in table 1 should be ordered from Land Rover parts in the normal manner:

Table 1

Description	Part Number	Qty
Fuel pump kit	LR017349	1

Warranty Information

Table 2 – SROs

Description	Model	SRO	Time
Renew HP pump, drive belt, tensioner and HP pipes	Discovery 3	19.45.08	2.8
Renew HP pump, drive belt, tensioner and HP pipes	Range Rover Sport	19.45.08	3.4
Renew fuel filter	All	19.25.02	0.6
Drive In/Drive Out	All	02.02.02	0.2

Warranty claims should be submitted quoting program code **P008** together with the relevant option code from Table 3 of this Recall Action. This will result in payment of the stated time and, where applicable, parts/miscellaneous expense codes.

As option codes are used, there is no requirement for you to enter parts or SRO information; these are repeated here for information only.

Table 3

Program code	Option	Description	SRO	Time	Parts	Qty
P008	B	Renew HP pump and related components	19.45.08 19.25.02	See Table 2	LR017349	1
P008	C	Renew HP pump and related components Drive in/drive out	19.45.08 19.25.02 02.02.02	See Table 2	LR017349	1

The option that contains the drive in/drive out allowance may only be claimed when the vehicle has been brought back into the workshop for the recall actions alone to be undertaken. Where possible this recall should be carried out in conjunction with recall P017 and in accordance with the Warranty Policy and Procedures Manual, only one drive in drive allowance may be claimed, care should be taken when selecting the option code to ensure this warranty policy is adhered to.

Warranty claims should be submitted in accordance with the current Land Rover Warranty Policy and Procedures Manual and its amendments unless stated otherwise in this Recall Action.

Yours faithfully



K Phelps
Director – Service Operations

Attached: Appendix 1 – Workshop Procedure
Appendix 2 – Sample Customer Letter
Appendix 3 – Technical Q & A

Appendix 1 – Workshop Procedure

Item	Description
1	Install new fuel HP pump, drive belt, tensioner and fuel HP pipes (see Global Technical Reference GTR Workshop Manual, section: 303-04).
2	Install a new fuel filter (see Global Technical Reference GTR Workshop Manual, section: 310-01C).

**Appendix 2 – Sample Customer Letter**

Name
Address line 1
Address line 2
Address line 3
Post Code

Vehicle Identification Number (VIN): ??????
Registration Number: ???????

Date: Month/Year

IMPORTANT
2006 to 2009 Model Year Discovery 3/LR3 and Range Rover
Sport Vehicles
SAFETY RELATED RECALLS

P008 - High Pressure Fuel Pump - Front Bearing Failure – 2007 to 2008 Model Year Vehicles**P017 - Brake Vacuum Assistance System – 2006 – 2009 Model Year Vehicles**

Dear Sir/Madam

Land Rover is undertaking two free of charge Safety Recalls (Program Numbers P008 and P017) to owners of 2006 to 2009 model year Discovery 3/LR3 and Range Rover Sport vehicles.

Reason for these programs;**Program P008**

Your vehicle may experience poor engine performance, fuel smell, engine noise, a fuel leak onto the rear of the engine, a fuel leak onto the ground or in extreme cases a vehicle fire, as a result of the front seal of the high pressure fuel pump failing, due to excessive wear of the pump front bearing. The failure is due to poor lubrication of the fuel pump front bearing.

Investigations indicate this issue is more likely to occur when the air temperature is high and/or poor quality fuel is used. Related drivability concerns will normally be accompanied by a Malfunction Indicator Lamp (MIL) being displayed.

Land Rover advises that all drivers should be diligent of the warning symptoms until their vehicle has been repaired with the new improved design high pressure pump.

Program P017

Depending upon its age, Land Rover has identified that your vehicle may experience one of two issues associated with the brake vacuum assistance system.

Vehicles produced between - November 2005 and April 2007 (LA367110-LA440000 and LS929086-LS117000)

Oil may migrate from the engine driven vacuum pump and collect in the brake booster. This may cause a progressive loss of brake assistance, resulting in hard brake pedal and increased stopping distances for the same pedal effort.



In extreme cases, engine oil may migrate from the brake booster to the brake master cylinder which may lead to a loss of one or both of the foundation brake system hydraulic brake circuits. This therefore, may lead to increased brake pedal travel, increased stopping distances and, in the event of both primary and secondary brake master cylinder seal failure, a total loss of service brakes.

Vehicles produced between May 2007 and June 2009 (LA440001-LA513325 and LS117001-LS215618)

Your vehicle may experience a temporary sticking of the vacuum non-return valve in the brake assistance vacuum pump mounted on the engine. This may lead to a temporary loss of vacuum assistance on the braking system. This can result in increased pedal efforts after the first 3 or 4 applications of the brake pedal after initial engine start for a period of no more than 60 seconds. The hydraulic braking system itself remains fully functional. Once the valve has unstuck the booster vacuum is immediately restored, full braking assistance is available, and the brakes perform normally for the remainder of that drive cycle.

What Land Rover and your dealer will do

Land Rover is carrying out voluntary recalls of the vehicles mentioned above. Land Rover Authorized Repairers will replace the high pressure fuel pump with one of an improved design, replace the brake booster vacuum pipe and check for oil in the brake booster. Where oil is detected in the brake booster, the brake booster and if necessary master cylinder will be replaced.

How long will it take?

The work will be carried out as quickly and efficiently as possible in order to minimize inconvenience to customers and could take up to six and a half hours, although your dealer may need your vehicle for a longer time due to service scheduling requirements.

What we are asking you to do

Contact your preferred Land Rover dealer without delay. Provide the dealer with your Vehicle Identification Number (VIN) (located at the beginning of this letter) and vehicle registration number. Ask for a service date for Recall Programs P008 and P017. If you do not have a servicing dealer, please access www.landrover.com for dealer addresses, maps and driving instructions.

When you bring your vehicle in to the dealer, please show this letter to the dealer. If you misplace this letter, your dealer will still do the work, free of charge.

If you no longer own the vehicle we would be grateful if you will complete the 'Change of Ownership' slip attached to this letter, returning the slip to Land Rover **immediately** in the enclosed 'Freepost' envelope. This will enable us to make contact with the new owner.

If you have concerns

If you experience any problems getting your vehicle repaired promptly and without charge, please contact your dealership's Service Manager for assistance.


If you have any queries or concerns that your local dealer cannot address, please contact Land Rover Customer Relationship Center (please enter telephone number) and one of our representatives will be happy to assist you.

This recall action is being undertaken in accordance with the legislative or industry requirements concerning vehicle defects. The authorities will closely monitor the response rate of this Recall Action. We ask that you please treat this matter with the urgency it requires. Land Rover regrets any inconvenience this recall may cause and thanks you for your co-operation.

Yours sincerely

Customer Care Manager

Appendix 3 – Technical Q & A

<h1>Technical Q&A</h1>	
FOR USE ON INQUIRY	
Land Rover Recall P008	
Model: Discovery 3 and Range Rover Sport TDV6 EU Stage 4 Engine Derivatives Description: High Pressure Fuel Pump – Front Bearing Failure	

Main Message:

An issue has been identified on a number of 2007 and 2008MY Discovery 3 and 2007MY Range Rover Sport vehicles fitted with the TDV6 EU Stage 4 diesel engine.

2007 and 2008 Model Year EU Stage 4 TDV6 diesel engines fitted to Range Rover Sport and Discovery 3 vehicles may experience poor performance, fuel smell, engine noise, a fuel leak onto the rear of the engine, a fuel leak onto the ground or a vehicle fire, as a result of the front seal of the high pressure fuel pump failing due to excessive wear of the pump front bearing. The failure is due to inadequate lubrication of the fuel pump front bearing. There have been a limited number of fires reported associated with this concern.

Q1 Why is Land Rover recalling certain Discovery 3 and Range Rover Sport models?

A A concern has been identified where by in certain countries, for certain vehicle production periods under certain operating conditions premature wear of the front bearing in the fuel injection pump is taking place.

Q2 Can you tell me more about what is wrong with the vehicles?

A There is localized pump front bearing overheat, followed by rapidly accelerated wear of the polytetrafluoroethylene (P.T.F.E.) from the P.T.F.E coated sintered bronze bearing matrix. With the loss of the P.T.F.E. from the bearing structure, the remaining bronze material is subject to increased friction and subsequently suffers mechanical overload failure.

Q3 How would the customer become aware of potentially having this concern?

A Initially the driver may experience poor performance, fuel smell, engine noise, a fuel leak onto the rear of the engine, a fuel leak onto the ground or a vehicle fire. Other symptoms may include a loss in engine performance and the illumination of the engine warning lamp.

Q4 Does this recall affect vehicle safety?

A In the event of a vehicle experiencing the concern, drivers will most likely detect unusual noise from the engine bay and may also detect diesel fuel odor. If these warning signs are ignored, vehicle safety may be compromised.

Q5 Has Land Rover received many complaints?

A Land Rover has received a number of field reports and warranty claims attributed to fuel pump concerns in relation to this condition.

Q6 Have there been any accidents or injuries?

A There have been no reported accidents or injuries associated with this concern of which we are aware

Q7 How was the condition discovered?

A The condition was first discovered by customers in Italy and Spain reporting a concern of fuel odor and fuel leak.

Q8 How long has Land Rover known about this problem?

A Reports of this issue were first received in May 2007 from Spain.

Q9 Is the problem connected with the fuel injection pump leading you to any concerns regarding the reliability of a system, which is supposed to be designed and engineered for the passengers' safety? What type of measures are you planning to take?

A We have no concerns with the reliability of the rest of the fuel system or the system as a whole outside of the affected vehicle population and then only in selected markets.

Q10 What has Land Rover done in production?

A Land Rover and the supplier have worked closely together on this investigation and have developed a fuel pump that is robust to the factors that lead to the failures reported..

Q11 What will authorized repairers do to the vehicles?

A Authorized dealers will replace the fuel injection pump together with the pump drive belt, belt tensioner device, fuel filter and a number of the fuel pipes on the engine.

Q12 Which vehicles are affected by this recall?

A Certain Discovery 3 and Range Rover Sport models fitted with the TDV6 EU4 engine

Q13 Are other Land Rover models affected by these actions?

A No other models are affected by this concern.

Q14 Are parts available to rework vehicles?

A Yes all parts are available for the re-work.

Q15 How much will the recall cost Land Rover?

A Cost was not a factor in deciding to recall these vehicles.

Q16 How do I know if my Discovery 3 or Range Rover Sport vehicle is affected?

A All owners of potentially affected vehicles will shortly receive a letter inviting them to contact a Land Rover authorized repairer for the work to be carried out.

Q17 How long does it take for the car to be repaired?

A The work will be carried out as quickly and efficiently as possible in order to minimize inconvenience to customers and is expected to take no longer than four and a half hours to complete. Naturally, due to dealer schedules, vehicles may be required for longer.

Q18 Can I continue to drive my Discovery 3 or Range Rover Sport vehicle safely until it has been recalled?

A Investigations indicate this issue is more likely to occur when the air temperature is high and/or poor quality fuel is used. The onset of bearing failure in the fuel pump will be accompanied with an unusual noise from the rear of the engine bay, the customer may notice a loss in engine performance and in extreme case may smell fuel or observe a fuel leak at the rear of the engine. Drivers should be diligent of these indicators until their vehicle has been recalled.

Note: Please ensure that any Press enquiries are referred to the Land Rover Public Affairs office.